UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

04/30/2004

AGILENT TECHNOLOGIES, INC. Legal Department, DL429 Intellectual Property Administration P.O. Box 7599 Loveland, CO 80537-0599 EXAMINER LEUNG, QUYEN PHAN

PAPER NUMBER

ART UNIT

DATE MAILED: 04/30/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/040,167	12/31/2001	Frank H. Peters	10010482	9451

TITLE OF INVENTION: OPTOELECTRONIC DEVICE USING A DISABLED TUNNEL JUNCTION FOR CURRENT CONFINEMENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	07/30/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
 - ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where

Fee(s) Transmittal. This certificate cannot be used for any other accompany papers. Each additional paper, such as an assignment or formal drawing, make its own certificate of mailing or transmission. AGILENT TECHNOLOGIES, INC. Legal Department, DL429 Intellectual Property Administration P.O. Box 7599 Loveland, CO 80537-0599 Fee(s) Transmittal. This certificate cannot be used for any other accompany papers. Each additional paper, such as an assignment or formal drawing, make its own certificate of mailing or transmission. I hereby certify that this Fee(s) Transmittal is being deposited with the Unistates Postal Service with sufficient postage for first class mail in an envel addressed to the Mail Stop ISSUE FEE address above, or being facsin transmitted to the USPTO, on the date indicated below. (Depositor's national paper, such as an assignment or formal drawing, make its own certificate cannot be used for any other accompany papers. Each additional paper, such as an assignment or formal drawing, make its own certificate cannot be used for any other accompany papers. Each additional paper, such as an assignment or formal drawing, make its own certificate cannot be used for any other accompany papers. Each additional paper, such as an assignment or formal drawing, make its own certificate cannot be used for any other accompany papers. Each additional paper, such as an assignment or formal drawing, make its own certificate of mailing or transmission. I hereby certify that this Fee(s) Transmittal is being deposited with the Unistates of the Unistate of Mailing or Transmission. I hereby certify that this Fee(s) Transmittal is being deposited with the Unistates of the Unistate of Mailing or Transmission. I hereby certify that this Fee(s) Transmittal is being deposited with the Unistates of the Unistates of Mailing or Transmission. I hereby certify that this Fee(s) Transmittal is being deposited with the Unistates of the Unistates of Mailing or Transmission.	maintenance fee notification	below or directed otherwise ns.	in Block I, by (a)	specifying a ne	w correspondence address	will be mailed to the current s; and/or (b) indicating a sep	arate "FEE ADDRESS" for	
AGILENT TECHNOLOGIES, INC. Legal Department, DL429 Intellectual Property Administration P.O. Box 7599 Loveland, CO 80537-0599 Loveland, CO 80537-0599 APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. (Openium no. 10040,167 1231/2001 Frank H. Peters 10010482 9451 TITLE OF INVENTION: OPTOELECTRONIC DEVICE USING A DISABLED TUNNEL JUNCTION FOR CURRENT CONFINEMENT APPLY TYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(5) DUE DATE DUE nonprovisional NO \$1330 \$300 \$1630 07/30/2004 EXAMINER ART UNIT CLASS-SUBCLASS LEUNG, QUYEN PHAN 2282 372-046000 1. Change of correspondence address or indication of "Fee Address" (17 CR 1.50). 1. Change of correspondence address (or Change of Correspondence Address from PTO/SB1/22) attached. 2. Per printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or 1 agents of 3 single single signation. The page of Address' (17 CR 1.50). 1. Change of correspondence address (or Change of Correspondence Address from PTO/SB1/22) attached. 2. Per printing on the patent front page, list (1) the names of up to 2 registered patent attorneys or 1 agents of 3 single and 1 single page of 2 single page of 2 single page of 3 single and 3 single single page of 3 single and 3 single single page of 3 single and 3 single single page of 3 single page of	CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
Legal Department, DL429 Intellectual Property Administration P.O. Box 7599 Loveland, CO 80537-0599 APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10040,167 12/31/2001 Frank H. Peters 10010492 9451 TITLE OF INVENTION: OPTOELECTRONIC DEVICE USING A DISABLED TUNNEL JUNCTION FOR CURRENT CONFINEMENT APPLINTYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1330 \$300 \$1630 07/39/2004 EXAMINER ARTUNIT CLASS-SUBCLASS LEUNG, QUYEN PHAN 2828 372-046000 1. Change of correspondence address or indication of "Fee Address" of 10 Change of correspondence address or indication of "Fee Address" of 10 Change of correspondence address or indication from PTOSB/12) attached. Use of a Customer Number is required. 1. Change of correspondence address (or Change of Correspondence Address from PTOSB/12) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED DON THE PATENT (print or type) PLEASE NOTE: Unless an assignment is identified below, on assignce data of 90 to 2 registered attorneys or 10 placed on the patent, inclusion of substitute for filing an assignment been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment fee(f) such as the property of the fee(s) is enclosed. Phyment of Fee(s): Debut of the property of the fee(s): Including address or the assignment is required to obtain or retain a benefit by the public whigh is up file least by the public whigh is up						_	emission	
Loveland, CO 80537-0599 Companies and Com		•			I hereby certify that t	his Fee(s) Transmittal is being	g deposited with the United	
Loveland, CO 80537-0599 Companies and Com					States Postal Service addressed to the Ma	with sufficient postage for fin il Stop ISSUE FEE address	rst class mail in an envelope above, or being facsimile	
APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10040,167 12/31/2001 Frank H. Peters 10010492 9451 TITLE OF INVENTION: OPTOELECTRONIC DEVICE USING A DISABLED TUNNEL JUNCTION FOR CURRENT CONFIREMENT APPLN TYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1330 \$300 \$1630 07/30/2004 EXAMINER ART UNIT CLASS-SUBCLASS LEUNG, QUYEN PHAN 2828 372-0446000 Change of correspondence address or indication of "Fee Address" (77 CFR 1.563). Change of correspondence address (or Change of Correspondence Address Ser indication of or "Fee Address" indication form PTO/SB/1/2/ stacked. The Address from PTO/SB/1/2/ stacked. PTO/SB/1/2 results of the USE/TO or is being submitted to the USE/TO or is being submitted under separate cover. Completion of this first in the USE/TO or is being submitted under separate cover. Completion of this first in SNGT a substitute for filing an assignment. (A) NAME OF ASSIGNEE PLEASE NOTE: Unless an assignee category or categories (will not be printed under separate cover. Completion of this form is NOTE a substitute for filing an assignment. (A) NAME OF ASSIGNEE PLEASE NOTE: Unless an assignee category or categories (will not be printed under separate cover. Completion of this form is NOTE a substitute for filing an assignment. (A) NAME OF ASSIGNEE PLEASE NOTE: Unless and service of the USE/TO or is being submitted under separate cover. Completion of this form is NOTE assignment. (A) NAME OF ASSIGNEE PLEASE NOTE: Unless and service of the USE/TO or is being submitted under separate cover. Completion of this form is NOTE assignment assignment. (B) RESIDENCE: (CITY and STATE OR COUNTRY) PLEASE chock the appropriate assignee category or categories (will not be printed on the patent). Inclusion of assignment data is only appropriate when an assignment. (B) RESIDENCE: (CITY and STATE OR COUNTRY) Director for Patents is required fee(s), or credit any overpayment fee(s) is enclosed. DA check in the amount of the		•			transmitted to the US	PTO, on the date indicated be		
APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/040,167 12/31/2001 Frank H. Peters 10010482 9451 TITLE OF INVENTION: OPTOELECTRONIC DEVICE USING A DISABLED TUNNEL JUNCTION FOR CURRENT CONFINEMENT APPLN. TYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1330 \$300 \$1630 07/30/2004 EXAMINER ART UNIT CLASS-SUBCLASS LEUNG, QUYEN PHAN 2228 372-046000 1. Change of correspondence address or indication of "Fee Address" (37 CPR 1,53). - Change of correspondence address or indication of "Fee Address" (37 agents) of the name of a single firm (having as a member a registered attorney or agents of the name of a single firm (having as a member a registered attorney or agents in the names of up to 2 registered patent attorneys or agents. If no name is itseed, no name and the name of the patent from the patent attorney or agents of the name of a single firm (having as a member a registered attorney or agents in the name of up to 2 registered patent attorneys or agents. If no name is itseed, no name and the patent periodically admitted to the USPTO or is being assimited under each and the patent front page, list (1) the name of up to 2 registered patent attorneys or agents. If no name is itseed, no name and the patent periodically admitted to the USPTO or is being assimited under each attain attorney or agents. If no name is itseed, no name and the patent periodically admitted to the USPTO or is being assimited under each attain attained to the patent periodical patent attorney or agents. If no name is itseed, no name and the patent periodical patent attorney or agents. If no name is itseed, no name and the patent periodical patent attorney or agents. If no name is itseed, no name and the patent periodical patent attorney or agents. If no name is itseed, no name and the patent periodical patent attorney or agents. If no name is itseed, no name and the patent periodical patent patents and the patent periodical patent patents. Patents is required	Loveland, CO 805	37-0599					(Depositor's name)	
APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/040,167 12/31/2001 Frank H. Peters 10/010/482 9451 TITLE OF INVENTION: OPTOELECTRONIC DEVICE USING A DISABLED TUNNEL JUNCTION FOR CURRENT CONFINEMENT APPLIN. TYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1330 \$300 \$1630 07/30/2004 EXAMINER ART UNIT CLASS-SUBCLASS LEUNG, QUYEN PHAN 2228 372-046000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address for Change of Correspondence Address for PI/OS/81/27) statehed. The Address from PI/OS/81/29 statehed. The Address' indication (or "Fee Address' Indication form Incompanies of up to 3 registered patent attorneys or agents. If no name is listed, no name you have been previously submitted to the US/PTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment been previously submitted to the US/PTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE PLEASE NOTE: Unless an assignce is identified below, no assignee data will appear on the patent, inclusion of assignee data is only appropriate when an assignment been previously submitted to the US/PTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment data. The following fee(s) are enclosed: Short Pee							(Signature)	
10/040,167 12/3 1							(Date)	
APPLN: TYPE SMALL ENTITY ISSUE FEE PUBLICATION FOR CURRENT CONFINEMENT APPLN: TYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(S) DUE DATE DUE	APPLICATION NO.	FILING DATE	FI	IRST NAMED IN	VENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
APPLN. TYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1330 \$330 \$1630 \$07/30/2004 EXAMINER ART UNIT CLASS-SUBCLASS LEUNG, QUYEN PHAN 2828 372-046000 1. Change of correspondence address or indication of "Fee Address" (37 CPR 1.56). Change of correspondence address (or Change of Correspondence Address from PTO/SB1/22) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB1/22) attached. "Fee Address" indication for "Fee Address" Indication form PTO/SB1/23 (20 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignce is identified below, no assignee data will appear on the patent, inclusion of assignee data is only appropriate when an assignment been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment been previously submitted to the USPTO or is being submitted on the patent); (A) NAME OF ASSIGNEE Please check the appropriate assignee category or categories (will not be printed on the patent); (B) RESIDENCE: (CITY and STATE OR COUNTRY) Please check the appropriate assignee category or categories (will not be printed on the patent); (B) RESIDENCE: (CITY and STATE OR COUNTRY) Please check the appropriate assignee category or categories (will not be printed on the patent); (C) Individual corporation or other private group entity corporation free Publication Fee Payment of Fee(s): (B) RESIDENCE: (CITY and STATE OR COUNTRY) Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Authorized Signature) (Date) NOTE: The Issue Fee and Publication Fee (if equired) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignce or or other party in interest as shown by the records	10/040,167	12/31/2001		Frank H. Pe	ters	10010482	9451	
nonprovisional NO \$1330 \$300 \$1630 07/30/2004 EXAMINER ART UNIT CLASS-SUBCLASS LEUNG, QUYEN PHAN 2828 372-046000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.563). □ Change of correspondence address for PTO/SB/122) attached. □ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/122) attached. □ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/122) attached. Use of a Customer Number is required. A ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) Please check the appropriate assignee category or categories (will not be printed on the patent); □ Individual □ corporation or other private group entity □ governar data. 4a. The following fee(s) are enclosed: □ A check in the amount of the fee(s) is enclosed. □ A check in the amount of the fee(s) is enclosed. □ A check in the amount of the fee(s) is enclosed. □ The Director is hereby authorized by charge the required fee(s), or credit any overpayment peposit Account Number □ Advance Order - # of Copies □ The Director is hereby authorized by charge the required fee(s), or credit any overpayment peposit Account Number □ This collection of information is required by 37 (FR 1.11. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the	TITLE OF INVENTION: O	PTOELECTRONIC DEVIC	E USING A DISAB	LED TUNNEL	JUNCTION FOR CURRI	ENT CONFINEMENT		
EXAMINER ART UNIT CLASS-SUBCLASS LEUNG, QUYEN PHAN 2828 372-046000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.563). Change of correspondence address (or Change of Correspondence Address from PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address from PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address from PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address from PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address from PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address from PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address from PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address from PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address from PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address from PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address from PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address from PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address from PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address from PTO/SB/122) attached. Change of Correspondence address (or Change of Correspondence Address from PTO/SB/122) and STATE OR COUNTRY) Please Check the appropriate assignee is dentified above. Change of Correspondence address from PTO-2038 is attached. Change of Correspondence address from PTO-2038	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	€	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
LEUNG, QUYEN PHAN 2828 372-046000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/1722) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/1722) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/1722) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/1722) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/1722) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/1722) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/1722) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/1722) attached. Change of correspondence address (or Change of Correspondence Address of up to 3 registered patent attorney or agents. (I present the Address of up to 2 registered patent attorney or agents. (I present the Address of up to 2 registered patent attorney or agents. (I print or type) PLEASE NOTE: Interest an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment is not a substitute for filing an assignment of Fee(s): Change of Correspondence address (up to the print of the States Intent and Intent Advent Correspondence and Intent Advent Correspondence and Intent Advent Correspondence and Intent	nonprovisional	NO	\$1330		\$300	\$1630	07/30/2004	
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.563). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agents of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent, Inclusion of assignee data is only appropriate when an assignment been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) Please check the appropriate assignee category or categories (will not be printed on the patent); lisuse Fee	EXAN	MINER	ART UNIT	r [CLASS-SUBCLASS]		
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. The Address' indication (or "Fee Address" Indication form PTO/SB/172 (or more recent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment been previously submitted assignee category or categories (will not be printed on the patent); Please check the appropriate assignee category or categories (will not be printed on the patent); Issue Fee Publication Fee Acheek in the amount of the fee(s) is enclosed. Payment of Fee(s): The Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Authorized Signature) (Date) NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademank Office. This collection of information is required by 37 CFR 1.311. The information is required to touching or retain a benefit by the public which is to file (and by the USFTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and astumiting the	LEUNG, QU	JYEN PHAN	2828		372-046000			
Grange of Contespondence Address form PTO/SB/122) attached. Grange of Contespondence Address form PTO/SB/122) attached. Grange of Contespondence Address form PTO/SB/122) attached. Grange of Contespondence agent) and the names of up to 2 registered patent agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. Grange of Contespondence	1. Change of correspondence CFR 1.363).	e address or indication of "F	ee Address" (37	names of up	to 3 registered patent	attorneys or 1		
The Address indication (or "Fee Address" indication form Number is required. attorneys or agents. If no name is listed, no name attorneys or agents. If no name attorneys or agents attorneys or agents attorneys or agents. If no name attorneys or agents att	Address form PTO/SB/1	22) attached.	-	firm (having	is a member a registered	attorney or 2		
PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only, appropriate when an assignment been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) Please check the appropriate assignee category or categories (will not be printed on the patent); individual corporation or other private group entity government of Fee(s): save Fee A check in the amount of the fee(s) is enclosed. Publication Fee Payment by credit card. Form PTO-2038 is attached. Advance Order - # of Copies Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized by charge the required fee(s), or credit any overpayment Deposit Account Number (enclose an extra copy of this form). Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Authorized Signature) (Date) NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the	PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer							
PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only, appropriate when an assignment been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) Please check the appropriate assignee category or categories (will not be printed on the patent); individual corporation or other private group entity government of Fee(s): save Fee A check in the amount of the fee(s) is enclosed. Publication Fee Payment by credit card. Form PTO-2038 is attached. Advance Order - # of Copies Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized by charge the required fee(s), or credit any overpayment Deposit Account Number (enclose an extra copy of this form). Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Authorized Signature) (Date) NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the	3. ASSIGNEE NAME AND	RESIDENCE DATA TO B	E PRINTED ON TH	IE PATENT (pr	int or type)			
4a. The following fee(s) are enclosed: Ab. Payment of Fee(s): A check in the amount of the fee(s) is enclosed. Payment by credit card. Form PTO-2038 is attached. Payment by credit ca							ate when an assignment has signment.	
4a. The following fee(s) are enclosed: Ab. Payment of Fee(s): A check in the amount of the fee(s) is enclosed. Payment by credit card. Form PTO-2038 is attached. Payment by credit ca	Please check the appropriate	e assignee category or catego	ries (will not be prin	ited on the naten	t): Dindividual D	corporation or other private 9	roun entity 🔲 governmen	
□ Publication Fee □ Payment by credit card. Form PTO-2038 is attached. □ The Director is hereby authorized by charge the required fee(s), or credit any overpayment peposit Account Number (enclose an extra copy of this form). Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Authorized Signature) (Date) NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an applicantion. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the					<i>,,</i>	torportation of taller private g	- Government	
Advance Order - # of Copies	☐ Issue Fee		C	A check in the	amount of the fee(s) is en	closed.	•	
Deposit Account Number	Publication Fee		C	Payment by ca	edit card. Form PTO-2038	3 is attached.		
Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Authorized Signature) (Date) NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the	☐ Advance Order - # of	Copies	<u></u>	The Director Deposit Account	is hereby authorized by o Number	charge the required fee(s), or (enclose an extra	credit any overpayment, to copy of this form).	
NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the	Director for Patents is reque	ested to apply the Issue Fee a	-					
other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the	(Authorized Signature)		(Date)					
This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the	other than the applicant:	a registered attorney or ag	ent: or the assignee	or other party	one in			
Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a	This collection of information obtain or retain a benefit application. Confidentialitiestimated to take 12 minu completed application for case. Any comments on suggestions for reducing Patent and Trademark 22313-1450. DO NOT SEND TO: Commissioner	ation is required by 37 CFR by the public which is to fy is governed by 35 U.S.C. I tets to complete, including gram to the USPTO. Time with amount of time you this burden, should be sent Offlice, U.S. Department SEND FEES OR COMPLE for Patents, Alexandria, Virginia and the property of	1.311. The informatile (and by the USP 122 and 37 CFR 1.14 athering, preparing, ill vary depending u require to complete to the Chief Information of Commerce, Ale TED FORMS TO ginia 22313-1450.	ation is required TO to process) I. This collection and submitting pon the individe this form and this form and this ADDRE.	n is the uual /or .S. nia SS.			



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/040,167 12/31/2001		Frank H. Peters	10010482	9451		
7:	590 04/30/2004		EXAMI	NER		
AGILENT TECHNOLOGIES, INC.			LEUNG, QU'	LEUNG, QUYEN PHAN		
Legal Department, Intellectual Propert			ART UNIT	PAPER NUMBER		
P.O. Box 7599	•	2828				
Loveland, CO 80537-0599			DATE MAIL ED: 04/30/2004	DATE MAILED: 04/30/2004		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 236 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 236 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.